

# Comparisons of Job Characteristics

**Focus Occupation:** Captains, Mates, and Pilots of Water Vessels (53-5021)

**Associated Occupation:** Sailors and Marine Oilers (53-5011)

[Compare Knowledge](#)

[Compare Skills](#)

[Compare Abilities](#)

[Compare Detailed Work Activities](#)

[Compare Tools and Technologies](#)

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

## Knowledge

Similarity of Focus Occupation to Associated Occupation: 70

**Focus Occupation:** Captains, Mates, and Pilots of Water Vessels (53-5021)

**Associated Occupation:** Sailors and Marine Oilers (53-5011)

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Mechanical	6.8	14.7	9.8	<<	Extensive education and/or training may be required
Public Safety and Security	6.9	12.7	13.4	0	Current knowledge level may be sufficient
Transportation	4.6	11.5	16.0	>>	Current knowledge level is likely more than sufficient
Engineering and Technology	5.7	10.9	6.3	<<	Extensive education and/or training may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.

## Skills

Similarity of Focus Occupation to Associated Occupation: 82

**Focus Occupation:** Captains, Mates, and Pilots of Water Vessels (53-5021)

**Associated Occupation:** Sailors and Marine Oilers (53-5011)

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Operation Monitoring	6.6	12.3	13.0	0	Current skill level may be sufficient
Operation and Control	5.4	11.2	14.0	>	Skill level is likely sufficient
Troubleshooting	4.5	9.3	7.9	<	A higher skill level may be required
Equipment Maintenance	3.5	8.7	5.8	<<	Extensive development of skills in this area may be required
Quality Control Analysis	5.9	8.7	7.9	<	A higher skill level may be required
Repairing	3.4	8.7	5.9	<<	Extensive development of skills in this area may be required
Equipment Selection	3.3	7.2	4.2	<<	Extensive development of skills in this area may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.

Abilities		Similarity of Focus Occupation to Associated Occupation: 76			
Focus Occupation: Captains, Mates, and Pilots of Water Vessels (53-5021) Associated Occupation: Sailors and Marine Oilers (53-5011)					
Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Far Vision	7.8	15.7	15.9	0	Current ability level may be sufficient
Depth Perception	5.3	12.5	12.2	0	Current ability level may be sufficient
Auditory Attention	5.9	11.9	10.0	<	Some improvement in abilities may be required
Gross Body Equilibrium	3.2	9.4	5.0	<<	Extensive improvement in abilities may be required
Spatial Orientation	2.7	9.2	13.4	>>	Current ability level is likely more than sufficient
Glare Sensitivity	2.6	8.9	11.6	>>	Current ability level is likely more than sufficient
Sound Localization	2.2	7.1	6.0	<	Some improvement in abilities may be required
Peripheral Vision	2.2	6.4	8.3	>	Current ability level is likely sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.

Activities that Both Occupations Have in Common		Similarity of Focus Occupation to Associated Occupation: 93
Focus Occupation: Captains, Mates, and Pilots of Water Vessels (53-5021) Associated Occupation: Sailors and Marine Oilers (53-5011)		
Work Activities	Exclusivity of Activity	
Direct and coordinate activities of workers or staff	3	
Direct course or speed of ship	99	
Inspect machinery or equipment to determine adjustments or repairs needed	42	
Maintain records, reports, or files	5	
Measure water depth	95	
Monitor sonar or navigational aids	99	
Operate emergency fire or rescue equipment	80	
Operate navigation technology or equipment	87	
Order helmsperson to steer vessel	99	
Perform safety inspections in transportation setting	62	
Read maps	42	
Read navigation charts	85	
Recognize reefs, shoals, or other hazards by navigation aids	99	

Signal directions or warnings to coworkers	42
Stand watch on vessel	92
Steer boat or ship	92
Understand technical operating, service or repair manuals	6
Use geographic positioning system (GPS)	81
Use knowledge of seamanship or boat handling	92
Use knowledge of tides and currents	92
Use local or regional geographical knowledge to transportation	70
Use two-way radio or mobile phone	42

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.

## Tools and Technologies that Both Occupations Have in Common

Similarity of Focus  
Occupation to Associated  
Occupation: 94

**Focus Occupation: Captains, Mates, and Pilots of Water Vessels (53-5021)**  
**Associated Occupation: Sailors and Marine Oilers (53-5011)**

Tools and Technologies	Exclusivity
Computers	1
Cutting and crimping and punching tools	3
Data management and query software	1
Face and head protection	7
Fall protection	16
Fire fighting equipment	16
Forming tools	2
Holding and clamping tools	3
Indicating and recording instruments	2
Industry specific software	1
Ladders and scaffolding	6
Lifting equipment and accessories	3
Marine craft systems and subassemblies	90
Navigational equipment and instruments	56
Personal communication devices	2
Power generators	16
Pressure measuring and control instruments	10
Pumps	9
Pyrotechnics	47
Radar and sonar systems and components	24
Respiratory protection	6
Rough and finishing tools	5
Safety and rescue water craft	56
Safety apparel	4
Surveillance and detection equipment	11
Telegraph equipment	90
Traffic control	47

Vision protection and accessories	3
Water safety	51
Wrenches and drivers	2

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.